

CLAIMS

2 We claim:

1. A composition comprising isolated SVII virus.

4 2. The composition of claim 1, wherein said isolated SVII virus comprises a
polynucleotide sequence shown in FIG. 1.

6 3. An isolated polynucleotide selected from the group consisting of;
an isolated polynucleotide selectively hybridizable with a nucleotide sequence

8 shown in FIG. 1,
a complement of an isolated polynucleotide selectively hybridizable with a

10 nucleotide sequence shown in FIG. 1,
an isolated polynucleotide encoding a SVII protein or fragment of a SVII protein,

12 and
a complement of an isolated polynucleotide encoding a SVII protein or a fragment
14 of a SVII protein.

16 4. The isolated polynucleotide of claim 3, wherein said isolated polynucleotide is
an antisense polynucleotide.

18 5. A composition comprising:
an isolated SVII protein or fragment thereof.

20 6. A vaccine composition comprising:
an isolated SVII protein or fragment thereof; and
a pharmaceutically acceptable excipient.

22 7. The vaccine composition of claim 6, further comprising an adjuvant.

8. An expression vector comprising an isolated polynucleotide encoding a SVII
2 protein or a fragment of a SVII protein.
9. An expression vector comprising an isolated polynucleotide, wherein
4 transcription of said isolated polynucleotide results in the production of an SVII antisense
polynucleotide.
- 6 10. An isolated polyclonal antisera that specifically binds to a SVII virus or a
protein thereof.
- 8 11. A monoclonal antibody which binds to a SVII virus or a protein thereof.
- 10 12. A method for detecting SVII virus, comprising:
contacting a sample with an antibody which specifically binds to SVII virus or a
protein thereof; and
- 12 detecting complexes of said antibody and SVII virus or protein thereof.
- 14 13. A method for detecting SVII virus, comprising:
contacting a sample with a probe polynucleotide which selectively hybridizes to a
SVII polynucleotide; and
- 16 detecting hybridization of said probe with a SVII polynucleotide.